# **UNCLASSIFIED**

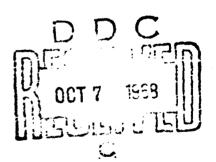
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The Mational Defence April Tasus 1966 15(b): 26-33

Tosuo licela Lomber, Defense Analysis Center, Defense Agency

1. Emportance of Agriculture in Chicon Boomony

The importance of the egricultural industry to the Chicom economy can be plainly shown with several indicators.

Pirst of all, the perstage of number of people engaged in agricultural industry in relation to the total population, was 39.7 per cent in 1949 and 35.2 per cent in 1955; however, the total number of people engaged in agriculture incre — from 450 million to 555 million during the same period. Although no numerical figure as to the number of agricultural people has been subsequently announced, it is believed that the percentage rate is at least at the level of 1956's. (As of 1963, the percentage of people engaged in the primary industry in Japan was 28.1.) Next, a check of national income by industry revealed that in 1959, agriculture represented the top most industry consisting of 43.6 per cent of the total industrial capacity. This situation existed despite the lowering of the percentage of agriculture relative to other industries subsequent to the beginning of the First Five-Year Plan. In contrast to the above, the income from our primary industries (agriculture, forestry, and marine products) as of 1963 totaled merely 13 per cent of the total industrial income.

Morecver, Thing Foo, 11 December 1961, indicated the importance of agricultural industry. It stated, "highty per cent of daily goods of the entire people are directly or indirectly derived from agriculture. Industrial products from raw goods derived from agriculture represent approximately 40 per ant of the total national production, while 50 per cent of the light industrial products depend upon agriculture as source

of their restanterials. The transport approximately 80 per cent of the goods distributed in the temption market are applically and the products as well as their subsidiry and manufactured products, and the approximate represent more than 70 per cent of the total emport goods. Then them 50 per cent of the total national income are acceptable of the total national income are entirely, and approximately 10 per cent of the flavorial income are either directly or indirectly a maked to the qualitatival industry.

For countries like Communist China that is striving for socialimition of industries, the eforementioned conditions are of liquidistance simply from the standpoint of China's Auture economic growth. Or course industrialization under socializa, as it has been illustrated in Soviet Russia, does not occur through establishment of unvestricted contacts with foreign markets. By means of total economic control, it initially thrarts economic disruption of domestic market by exercising restrictions of import items that would unfavorably affect the desestic market and then the government attempts to develop less meaningful industries which can withstand the competitions from the advanced industrial nations. Consequently, those products menufactured under these stipulations cannot expect to have foreign demands and thus, they constitute only a limited source for gaining foreign currencies. Thus, in order to develop a socialistic industrialization, the country is compelled to rely upon continued exphasis in the agricultural industry in the absence of foreign aids.

Therefore, the degree of industrialization is essentially governed by the amount of agricultural products. As it has been frequently emphasized by the experts of Chicom economy, the favorable agricultural situation for the years 1950, 1952, and 1955 stimulated other industries for each of the year following the aforementioned years while the dismal agricultural situation for the years 1951, 1953, and 1956 adversely affected the industrial advencement for each of the year following those mentioned years. These facts seemingly confirm the manufacturing industry - agriculture relationship mentioned earlier in this report. It still remains fresh in our minds that the three years of catastrophic agricultural situation beginning in 1959 placed the Chicom economy on the verge of bankruptcy.

Regardless of the mentioned relationship between the manufacturing industry and agricultural industry, it cannot be considered an one-sided affair in which the agricultural industry limiting the manufacturing industrial output. It should be bore in mind that industrial output accelerates the agricultural output. In order to increase agricultural output, it must depend upon the support of the manufacturing industries in such matters as water supply, irrigation, cultivation, fertilization, and insecticides. In other words relationship of mutual dependency exists

between the agriculture and manufacturing industry, and especially for countries like Communist China, the efforementioned relationship of the two industries must be clearly understood.

However, during the 1950's, the Chiese authorities everlooked the importance of the manufacturing industries provided the receiving appoint to the agriculture then they placed a high philonity for the Sevelopment of the heavy industry. For emigrae, during the deliet Direction Plant (1953-1957) when the total investment for the period was considered 190, only 7.6 per cont of the investment were allotted for the development of agriculture and forestry, irrigation, and mateorology, and the majoraty of the investment for developments was essentially expended in irrigation projects. As for the production of manufactured fortilizer, it ims not until the last stage of the First Five-Year Flan that Chicom finally achieved an annual production volume of 630,000 tons. The production of such form implements as tractors and columbines also did not begin until the last stage of the Mirst Five-Year Flam. The method employed by the Chican authorities not only greatly limited the industrial support of the agricultural industry but in order for the latter to limit support of the manufacturing industry, the authorities emphasized the establishment of agricultural commes. However, the establishment of the communes without adequate mechanization must rely upon the strengthening of murpower for the necessary increase in production. Tit was also questionable whether one plan for the utilization of memower would be universally applicable to all the communes since they were faced with among some of their delicate problems, such matters as individual goographic variances. Probably it could be stated cardidly that the great economic disaster Chicom suffered beginning in 1959 were obviously the results of the authorities having completely disregarded the belianced relationship that exists between the agricultural industry and manufacturing industry.

After having paid such an exorbitant price of "Three Years of a Consecutive Catastrophy," the Chicoms finelly became aware of the agriculture - industry relationship, and they announ a national economic development plan with agriculture as its foundation and industry playing the role of guiding the development. This is the so-called "Agriculture Fundamental Theory" which is summarized as (1) Industrial development is go arned by the extent of agricultural device that the rate and extent of industrial development, and (1) prefere, the industry must provide adequate equipment to agricultural in a called to support technical progress of the latter. (Asia Economics, Volume No. 9, 1965)

In the like manner, the principle of providing highest priority to agriculture was adopted in the planning of "Third Five-Year Flent"

which began in 1966. (Distorial, <u>Peopleta Baily</u>, I January 1966)
Consequently, judging from the economic structure and character of
Communist China and the recent policies of the government, it can be
said that the agricultural production represents as the communical element
of the military potential of Communist China.

### 2. Some Basic Semilitions That Restrict Agriculture

At this time, some basic conditions thick limit the applical turned production of the Lainland China will be discussed.

The first consideration is given to feed products which are the nuclei of the agricultural production and learn where they are grown and how they are produced. A check reveals an approximate shotch as illustrated in Figure No. 1. It also discloses that the main food producing areas are divided into four separate regions, namely (1) Northeast grain producing area, (2) Yellow Liver wheat belt, (3) Shang Chiang (Yangtoo River) rice producing bolt, and (4) South China rice producing area. From the everall standpoint, the country could generally be divided into the day forming region of the north and the rice bolt of the south. Those identifications of areas generally correspond to the relative amount of precipitation. The comucal rainfall for regions (1) and (2) mentioned above is approximately 500 mm per year, for region (3) is approximately 1,000 mm, and that for region (4) is over 1,200 mm. Moreover, there are much variations in the anount of rainfall, depending upon the season and year. Generally, however, the rainfall is prevalent during the summer season with 50 to 60 per cent of the rainfall occurring for the region between the Kellow River and Yangtza River, 70 per cent for the areas north of the Yellow Miver, and 30 per cent for Ropeh and the eastern sector of Timer longolin. The amount of rainfall within any given region veries depending upon the year. The variation for the Couth China and Northeast region is 20 per cent, for the area between the Yellow Niver and Mangtoo River is between 25 to 30 per cent while it varies more than 50 per cont for the areas in North China and Inner Mongolia.

The aforementioned close relationship between crops and rainfall greatly limits agricultural production. The first point is that there is a great fluctuation in agricultural production caused by lack of rainfall. During the period from 206 EG to 1936 or in 2,124 (sic) years, there have been relatively speaking, 1,031 great floods and 1,060 great draughts or approximately one, either great flood or great draught, every year. It is thus understandable thy Communict China places so much emphasis in controlling irrigation. However, it has paradoxically shown that the more they explusived irrigation projects, the more the country suffered. For example, at the time the First Pive-Year Flan was imitiated, the area suffered (from flood or draught) ansumed to less than 10 per cent of the total areas under cultivation. However, with the progress in irrigation projects, the account of area suffered also increased. In 1954,

it was 12 per cout of the total endulyated area. In 1957-1958, it was opprominately 15 per cent. In 1959, it was no per cent, english 1966edvorce recults can be attributed to alignated construction resultaing from the mobilization of Green in social and results in the series in the Incomently it would be note distincult to entire the contestion the descets than starting a new projects. The cold distinct they have some the contestions that it would be exceedingly dilities by it will each origin to the will and level of agricultural techniques notionald. The obstealer for this attempt are found in variance of weather conditions, in types of crep raised and nothede or emittavetion to well as in regional differences in todegraphy, soil composition, and available labor forces. Consoquently, the committy is compelled to make various changes in its policies for most switened regults, depending mon the oxisting situation in the particular region. From an everall standpoint, the regions in Northeast, North China, and Northwest where dry farming is mulaly procticed are lacking in sufficient, labor force in both men and beauts. Consequently, emphasis in rechanization in cultivation and transportession such as the use of tractors and trucks is incorntive. For areas such as Hupch and the Yellow River Basin where they constantly face floods or draught, the emphasis must be on irrigation projects while in the couthorn rice growing region with over abundance of rainfall, the emphasis is placed in the use of drainage equipments. The third point to be moutioned is that there are variations in the amount of crop depending upon its kind and location. The Table No. 1 and Table No. 2 were both citracted from the For Eastern Zeonomic Roylew Tearbook. Undoubtedly a reader will notice that rice crop is approximately 3 to 1 in comparison to wheat for a given area. From the standpoint of amount of crop relative to a unit area, wheat is least following in the order of rice, potatoes, and grain. Because of the eforementioned situation, although the Yellow River Basin represents 40 per cent of the total cultivated area, it produces only 20 per cent of the total food production. It was because of this situation that the policy of expanding the rice growing into the North was instituted following the "Three Consecutive Years of Catastrophy." It is believed that a reader can notice some appreciable differences in reviewing the results indicated in the Tables No. 1 and No. 2.

Although the fourth point is different in perspective from the previously mentioned points, it is believed appropriate to mention at this time. It concerns derages resulting from insect and plant diseases. China suffers incalculable damage from blight and harmful insects every year. Minimation of damage from them alone would be equivalent to an increase in acreage of food products and cotton, 10 and 20 per cent, respectively. Consequently in this particular problem area, the production and utilization of agricultural chemicals becomes a matter of significance.

It is said that the acrossed is almost committanted areas in China. It is said that the acrossed is almost committent to the said presently under cultivation. The development of those uncultivated areas has been constantly emphasized since the incoption of the Phrot Phro-Morr Flan. However, very little progress in this discretion has been accomplished due to the relationers of these uncultivated areas. According to official statistics, the increase has all invened according period of 1990 to 1993 amounted to only 7 per equal. It is hear yell that subsequent rate of increase has been a sea has than the afformmentioned digure, and accordingly it is also believed that not much of any great increase in cultivation of new areas can be expected.

## 3. Indiantor and detrality of igniculated Moderniaction

In order to increase agricultural production, only two avenues are evailable, vis., aspend serence of cultivation or increase eros production per unit area. If it is difficult to expand the acroage of cultivation, than the country must rely upon improvements of egricultural techniques for the increase in crop production. No Teetung's initial time schedule for agricultural technical reformation indicated considerable prudence regarding the problem. He estimated that to accomplish a nation-wide technical reformation in agriculture would require 20 to 25 years. (New China Monthly Report, November, 1995) However, influenced by the superficial optimism generated by the "Great Loap Forward," the time schodule was shortened and resulted in establishing an accolorated plan of "Counting from 1959, minor problems concerning agricultural necessitation will be accomplished in four years, average problems will be resolved within seven years; and major problems within 10 years." However, subsequent to the "Three Consecutive Years of Disactor," in 1962, the authorities changed their period of estimation to the original plan of 20 to 25 years for accomplishing modernization of agricultural techniques starting with 1962. (Zditorial, People's Daily, 9 November 1962) In China the word "shih-hua" (four changes) is expressed symbolizing modernization or technical improvement in agriculture. These "Four Changes" are in neclanization of agriculture, electrification, improvement in irrigation, and increase in chemical utilization. The tentative dates of accomplishment as mentioned by LTU Jih-hein are as indicated in Table No. 3. The holdings (as of 1964) as indicated in Table No. 3 are believed based upon Chou In-Ini's report made in late 1964. In contrast to the total amount required for completion of medernization, the table indicates that the country has only one-seventh of the required number of tractors, one-third of frainage equipment, two-sevenths of necessary fortilizer, and two-figure of the needed electricities in agriculture. The deficioncy in number of tractors is especially glaring. On the whole, presently the country has only one-third of the necessary materials/items required for the modernication of the agriculture.

Although incomplete, few statistics are furnished to indicate how much progress was made in the "Four Changes" diming the year 1965. A report on invigation projects revealed time for "the works during the winter of 1965, 14 million core mampower was robilized and accomplished more than 50 per cent in comparison to the previous year, and 1.3 million hostares of additional land were notify linguistics. (Asia Mew, 5 Pebruary 1966) Honorous based upon province instances, there are some doubte as to accual bonofice there we will persone Although in regard to drainage facilities, "sixty have been an increase of 25 per cent over the previous year," (Same reference as above), the fact that the amount of holdings concerning drainage equipment was the same as reported in a weekly report published at the end of 1964 could only be interpreted that the number of increase in equipment represented primarily replacement of old equipment. A similar report concerning number of tractors has also been made. (New China News Agency, 29 September 1965) It is not elect whether hand tractors were included in the number of tractors; however, it is noteworthy to observe that the production of tractors during the period of January to sugust amounted astonishingly to more than 5.5 times she corresponding period during the previous year. One interpretation concerning the phenominal increase is that rather than clearly reflecting the growth, it also indicates how meager the original number of tractors. According to New-China News Agency (25 February 1965) the consumption of electrical power in the rural areas increased by 25 times that of 1957 s. Since the electrical consumption in the rural areas for 1957 was estimated at 110 million king, it was calculated that the consumption for the year 1965 tas 3.5 billion kinv. Since successive numerical figures are available since 1961, (reference is made to the author's Economic Power of Communist China), the following figures are cited: 1961 - 1 billion the; 1962-1.56 billion km, 1963 - 2.1 billion km, 1964 - 3.22 billion km, and 1965 - 3.5 billion line. The reader should note that in contrast to the approximate 40 per cent annual increase during the period of 1961 - 1961 the increase for the year 1965 amounted to less than 10 per cent, re-Mosting transdous decrease in rural electrification works for the year. Although it was not included in the Liu Jih-hain indicator, the production for agricultural chemicals for 1965 was reportedly approximately 50 per cent more than that for the previous year (Economic Review, 1 January 1966 Since the moduction volume for 1964 was approximately 300,000 tons, the 1965 production was estimated at 450,000 tons.

It was reported that "production for the period Jamery - Angust was 30 per cent more than the corresponding period for the previous year." (Kuang-Ming Daily, 24 October 1965) The MCNA news dated 1 Movember reported that "as of present" the amount of production was 1.7 million tons more than the volume produced in 1964. The December 15th announcement of the MCNA stated that the total production as of the end of Movember was 2.79 million tons more than that of the previous year. Consequently determining

the date of "as of present" proviously and mosed by the Dall become matter of significants. If the this formal was as of the smooth of it meant that the monthly production for decoder and llovant account representately \$50,000 tons each and that it also would signify the would be an increase of 3.34 million tone to a provious year time frame was as of and of Cotober, in the count of the world of Hovember amounted to 1.09 of the source of 3.88 million tone even

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According to Engage in leving, and I demany 1965 ( lesis by Iang Chieng-Chih) the production or charic a cultimer included by more than 60 per cent over the previous year. In the production is enfoulated in the first time frame, the total production for 1965 anomated to approximately 8.8 million tens. If figured on the second time from a, the total production would have been over 10 million tons. The latter figure is balleved too excessive when interpreted with figures related to the 1964 production. The amount of fertiliser distributed to the rural areas during 1964 was approximately 7 million tone. Then the emerat of ferti-liser imported was subtracted from the total distribution, the demestic \* production was estimated at 5 million tone (previously referenced author's article). Thus, it is believed that the first interpretation regarding the production is preferred over the second interpretation. Consequently it is estimated that the domestic production amounted to 8 million to 9 million tons. By adding the import to the above-mentioned amount, it seems that approximately 10 million tons of fertilizer were distributed to the furgers. Regardless of how one views the situation, he cannot demy the fact that Communist China has greatly accelerated its production of chemical fartilizer. During 1905, 28 large and 140 small fortilizer factories were either built or expanded, and reportedly almost all the provinces and cutonomous regions have at least one chemical fertilizer "factory. (NCNA, 15 December 1965) The fact that these news invariably mentions a production increase in phosphate fertilizer indicates that its production has increased much more rapidly then the production of nitrogenous fortiliser.

A survey of the aforementioned statistics reveals that there has been a phenomenal growth in chemical fertilizer production and increase in electric consumption in the rural areas in the modernization of agricultural production for the year 1965 and that estimated 40 per cent of the Liu Jih-hain indices have been attained. On the other hand it was adjudged that hardly any progress was made in machanization such as in number of tractors and drainage facilities.

#### 4. Recent Agricultural Production Level

Progress in "Four Changes" i.e., mechanization, electrification, improvement in irrigation and in increase of chemical products, does not

correspondingly realest increase of agricultural production for the same year. The setual medication is governed also by such other factors as weather contibles and the will to work on the part of the kaborers.

Information conserving agricultural production for 1965 remains constint heap. The 1966 New Moure education of the Peoplets Unil States that "For 1965, our agricultural production careful the production for the fourth consecutive year." However, it washe that the Education production for the year was how than that for 1964.

Of the limited number of reports available on the settil production of agriculture for the year 1965, comparatively organized information was desclosed by the Ohen, Deputy Director, Department of Agriculture during his interview by a correspondent of the China News (China News) (Industry 1965) and from which the following perturent information was extracted:

In tone similar to that voiced in the New Years editorial People's Brily, the Chen initially stated that the "agricultural social tion in China for 1965 surpassed that of the preceding year for the third consecutive year since 1902." He stated that "Food production cetton, farm products for oil, and other economic products all showed over-all increase in production. There has been an increase in live stock (cattle, horses, denkeys, and mules) and in pigs, sheep, and domostic fords and an overall increase in agricultural products from the previous year. Surmer crops such as wheat showed 15 per cont. increase over the preceding year. As for the autum crops, except. for the corrain areas, they, too, showed an overall linerage from the provious year. Cotton production showed somewhat a greater includes than food production and in both total amount of crop and yield in unit surpassed the previous records." The special feature of the s interview was that except for Wa's disclosure of some increase in Meta and cotton production, he failed to mention specific increases in citar productions. Thus our approach to the problem must necessarily assume form of generalities.

The problem is did the 1965 production actually surpais that of the previous year? Some question arises from the fact that his during his interview, provided some specifics regarding the increases in summer production but remained rather vague concerning the attime modulation. A question thus arises that although there was an increase it summer production, the important autum production proved a failure in the overall production for the year might not have resched that or the preceding year. Even an HCMA article published at the end of 196 (2). December 1965 edition) reported that "the autumn production suffered nation-wide because of the flood and draught." Concerning the summer production, the article reported that "the rice had a bumper drop and other main products exceeded both in production for heating and in cot

amount, surpassing the records of 1964."

In fact, name from the mainland and equals to the surface of 1965 until the Mational Day (1 November) publicated managed a surface ing temper crop, however, about the tile to be a white of the arm against usually announced, news unking reflect to the before or or a contact and far in between.

The basic for the assessment that the spricultural production for the year 1965 Gld act-approach that of the provious year is indicated in the fact that the National Proplete Congress for the year was not convened. In the past the only time the Mational Proplete Congress was not held since the founding of the Communist regime in China was in 1961 when the country was food with a serious economic diseaster. Sudging from this fact, the seriousness of the economic plight for 1965 was obvious. It could be said that a Mational People's Congress Standing Committee conference was held on 20 November 1965 to hear a report concerning nations agricultural cituation and to decide whether or not to convene a Mational People's Congress based upon the report furnished. It can also be assumed that due to the unexpectedly adverse report concerning the agricultural situation, the Standing Committee numbers decided to postpone the Mational People's Congress.

Also in reference to the interview of Wu mentioned previously, the fact that Wu "emphasized" the adverse weather condition could be interpreted that the agricultural production for 1965 was poor. According to Wu the natural condition for the year 1965 was as follows:

In many northern areas, draught conditions prevailed because of lack of snow and rain from hovember 1964 to the early part of April 1965. Even during the surper months much dry spell prevailed in the North China region, and this dry spell which extended into the autumn was the nost severe one in the last several ten years. In contrast to the above, the weather condition in South China was relatively favorable, but still the spring and autumn temperatures were too low, adversely affecting in the seeding and harvesting of paddy rice. In some areas rice paddles were damaged because of excessive rain, and winds as well as from frost and harmful insects.

Noted was almost a total absence in announcements concerning amount of production for various agricultural products. By collating various news of Communist Chins, the products which could definitely be stated to have increased in 1965 over that of 1964 were wheat, cotton, leaf tobacco, raw meterials for sugar and in number of pigs among the live stock. Among the aforementioned products, wheat production amounted to 15 percent over the previous year and cotton by several hundred piculs more than that of 1964 and that the latter was the highest recorded in

dist.

Mistory. (Moscowich Louisian 1992) and 1992) To the projected that the soften production for the plant 1997 (Mistorian Parish Louisian terms of minoriae, the first the 1995 production that such that the middle for the production that such that the middle for the production that such that the middle for the court of the court included for the court of the court of the court for the production, the local form the court of the court

Concerning soys beens, an important product for oil, the ECHI Invoin disputes (12 lowered 1955) reported so follows: "This year's says been are picks from the more than 1.3 million heatures of the main says been growing area of hollowgining Province was relatively high. Both in the total production and in yield per unit, the amount surpassed those of the previous year." The fact that this emountained pertaining to increase was made in such a concernative tone, indicated in itself, that the amount of increase was barely over that of the previous year.

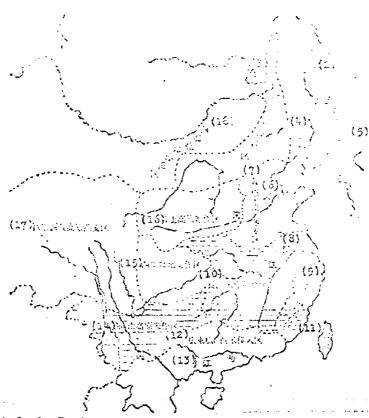
The ICLA further amounced that leaf tobacco production "increased nation-wide over the preceding year" and that the total production of raw material for sugar is believed to be more than 50 per cent over the 1964 burger erop." (ICLL, 16 Jevember 1965) "The number of pige is the highest in the last 16 years." (Iconomic Review, 1 January 1966)

An estimate of agricultural production for 1965 as indicated on Table No. 5 was based upon the aforementioned news information and the previous estimates made by this author for the year 1964. The figures listed in Table No. 2 were those published in the <u>Pastern Resource Review</u> (whose over-all estimated figures are lover than those of this author). They may also be used as basic figures.

Finally, for data amounced by the United States Department of Agriculture in Royander 1965 are listed as reference (Morld Ross, 14 December 1965): (1) Although the food production in Communist China made a sizeable gain in 1962 over 1961, it has remained in the vicinity of 180 million tons per year since that time.

(2) Because of draught in Morth China the production of west for 1965 was less than 1964. It is anticipated that potato production will also be less because of decrease in planting acress in diversion of some farm land for planting of potants. (3) as some bean production is anticipated to be only four and the less than the 1964 production and the annual average for the 1953 - 1957.

### and option only of Order to And the 45. 25<u>2. (4)</u>



- Northcast Grein Producing Area
- Gold Verdure Lagion Outside The Farm Bolt
- Lao Miver
- Yalu Liver
- Yellow laver
- 7. Yellow River River Co. Yangthe River Yellow River Basin Winter Wheat Belt
- Chekiang-Fukien Maritime Rice Producing Region
- 9° 10. 11. Yangtee River Rice Froducing Region
- Telwen
- Mwangtung-Mangei Rica Importing Region (Sic)
- Esi River
- 13. Southwest Mateau Pice Cultivation Area
- Szechwan Basin (Rotational) Gultivation irea
- 16. Locss Flateau Mixed Cultivation Area
- 17. Siking Tibetan Platean Oats Belt
- 18. Northwest Dry and Wet Rice Field Area

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(1) Table No. 1 Areas of Oulviviolan of Various Oropa
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(2) (unit: 1 million hosteres)

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                                        5F 141,905 134,486 137,157 97 102
 (3): Average for 1958-57
 (4) Year
                                  17)(注) 1、A間は「偉大な十年」による。
 (5) Comperison
                                     2、その他は非公式推計。
 (6) Rice
                                 [18] (田別) Far Eastern Economic Review, 1966
 (7) Ineat
 (8) Grain
(9) Potatoes
(10) Total food products (11) Cotton
(12) Soya Deans
(13) Peanuts
     Rape Seed
     Sesame
      Grand total
      Motos: 1. A column based upon the "Great Ten Years"
              2. Remaining figures are unofficial estimates
(18)
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Reference

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(1) Table No. 2 Value of Trinciple Resimbs
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(2) (tmit: 1,000 tens)

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(10)226合計 171,930 179,100 182,700 105 102
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     Potatocs*
                                    (18)(出所) Far Eastern Economic Review, 1966
(10)
     Total grain product
                                            Yearbook.
   Cotton
     Soya Beans
     Peatuts
     Cotton seed
     Rape seed
     Sesame
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Notes: 4 4 of potatoes were calculated as 1 of grain

Reference

(1) Teble	. •	Indicators and Realizabiles of Agricultural McCarakeation .

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(2)	The second secon	
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	8位献として計算。 (3)は指著「中央の経済力」(庶仏研究所列)による。	

-(2)	Itoms (
<b>''</b> '3)	Indicator for modernization (1)
(4)	
(5)	
ે(6)	
(7)	
<u>`(8)</u>	130 million mp
(9)	
	1 tractor per 1,500 ho*
$(\Pi)$	200,000 tractors
(12)	702.000
(13)	
(14)	
(25)	
(16)	
(17)	
(18)	
(19)	
(20	Chomical fertilizer
(21	30 lbs per 40 ho*
(22	
(23)	6.8 million tons (includes import)
10.74	

1 ku/h per 1 hor 8 cillion ku/h

3.22 billion lar/h Hotes

(1) Data from the thesis by LIU gib-hain (People's Daily, 20 June 1963)

(2) Calculations based upon: 1.6 billion ho (Chinese ho) of cultivated land 1.2 billion ho of cultivated land where tractors can be used. 0.8 billion ho of land for use of irrigation machines (3) Entracted from Chicom's

Economic Power, published by the Kashima Research Center

(\* 10 Japanece ho is 0.245 acre)

(1) Table No. 4 lachamization, Employment of Charlesis, and Electrification

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		(2)		(c. (c.)		(5 <u>\</u> :	(ઇ)
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	(15)	17:4:13	13) 12	63. 2		ું દેશ	500~20
	(16)			131.5			
	(27)		-分:ン	14.9		30.0	45
	(18)	) ( ななか	19} /:kw/h	1.4	(9) //::×23	32. 2	
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1957 Results Circuit Resor	•						
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Form tractors Stendard trac		hn					
1957				700 (196 <del>9)</del> (1969) 200 (1969) (1969) (1969) (1969) (1969) (1969) (1969) (1969) (1969) (1969) (1969) (1969) (1969) (1969) (1969)			
Irrigation/ar	وهدمت	facil	ities				

- 1957 Results
- Circuit Repor

- (9) 1957
  (10) Irrigation/drainings facilities
  (11) 40,000 hp
  (12) Supply of chemical fertilizer
  (13) 10,000 tons
  (14) Approximate
  (15) Denostic product
  (16) Import
  (17) Agricultural chemicals
  (18) Consumption of electrical
  power in rural community
  (19) 10 million hu/h

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Table Ro. 5 Recent Agricultural Production Level.
                                                                                                                                              (1) #5R SERVICE (5)
(5) 37 (6) (5)
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(19) 15 14,550 [6(10]] 11,650 15,650
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れ続われては高級人の行うです。
2、6年は1200年については、第一の
数学で展示されているものもすべて点
600年でき
           (3) 1957 Results
(3) Chom En-loi's
(4) 1964 Estimate
                              Chou En-Jai's Report
                              1964 Estimate
                              1965 Estimate
                             Whin agricultural products (unit - 10,000 tons)
                           Food product
                          2500esd 1957
                              Oction
                              Sees as above
                               Soya bears
                              Pearats
                               Sessme
                              Leaf tabacco
                               Sugar came
                               Livestock (unit - 10,000 heads)
                               Lerge livestock
                               Sheep
                               Pig
                               Notes: (1) 1964 estimates were extracted from Chippen's Recomming
                                                                                     Power published by the Mashima Research Center.
                                                                 (2) Figures given for 1964 and 1965 are all estimates.
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